Mission Accomplishments (Celebrating Success)

The successful acquisition, testing and logistical support of training aids, devices, simulation, instrumentation and simulators delivered to the soldier demonstrates that high-quality products can save the military, and ultimately the taxpayer, millions of dollars. STRICOM hopes that by highlighting a few successful programs and sharing information on what works, others will better understand the breadth and scope of what we did in support of our many customers, and more importantly, for the soldier. **A few of our success stories are featured below:**

Advanced Distributed Simulation Technology II (ADST II)

The ADST II program is designed to facilitate DoD and the Army's evolution into the future by providing a Test-Bed for the conduct of experiments and evaluations. STRICOM provides a ready resource of facilities, personnel experienced in the conduct of experiments, and a group of leading edge simulation engineers that can take on the tough issues and provide results which meet the needs of tomorrow's military environment. The facilities are designed to support the user while reducing the costs of using more traditional methods to conduct experiments with new concepts. Simulation-based research allows the exploration of new doctrine, systems, organizations and training methods in a safe, cost-effective environment.

ADST II is a contract requiring a wide range of professional and technical disciplines supporting advancement of Advanced Distributed Simulation (ADS). The contract is structured to provide rapid response and flexibility for experimentation, prototype development, demonstrations and site activation while minimizing acquisition costs. Major areas of support include : engineering (analysis, design and integration), logistics, program management, and operations/maintenance services.

T E S T I M O N I A L S

"I highly recommend the Core Distributed Interactive Simulation (DIS) Facilities…as you work through your requirements, identify your simulation needs, and plan your demonstrations. The Core DIS Facilities provide an excellent platform for managers to validate or update information in your respective Source Selection Plans."

--Walter W. Hollis, Deputy Under Secretary of the Army (DUSA), Operations Research--

"My staff has been particularly impressed with your successes in developing DIS Test-Beds and in linking distributed, dissimilar training systems."

--COL Steven E. Fleming, U.S. Special Operations Command (USSOCOM),
Program Executive Officer (PEO) Fixed Wing--

The ADST II program operates four Core Distributed Interactive Simulation (DIS) Facilities. The Operational Support Facility (OSF), Orlando, Florida is the primary Integrating facility for most delivery orders.

The remaining three government-owned Core DIS Facilities (CDFs) are:

- **Aviation Test-Bed (AVTB) - Ft Rucker, Alabama**
- **Mounted Warfare Test-Bed (MWTB) - Ft Knox, Kentucky**
- **Land Warrior Test-Bed (LWTB) - Ft Benning, Georgia**

OPERATIONAL SUPPORT FACILITY (OSF)

The OSF is the focal point of all the CDFs and its function is to promote and facilitate horizontal integration within ADST II. One of the exercises the OSF conducted:

- **Air-Craft-130OU Test-Bed. Provided Navigator and Fire Control Officer Test-Bed Proof of Principle for U.S. Special Operations Command (USSOCOM) and Air Force Special Operations Command (AFSOC). The unit conducted a Test-Bed demonstration of the current technology to support Modeling and Simulation Master Plans.**

AVIATION TEST-BED (AVTB)

The AVTB provides DoD agencies with an aviation oriented, research, development, test, and evaluation facility. Some of the exercises the AVTB conducted in FY 97:

- **Joint Combat Search and Rescue**
- **Combat Identification Virtual Integration Exercise**
- **Task Force XXI Digital Training Exercise**
- **Bosnia Pre-Deployment Training Exercise**
- **Aviation Brigade Training Support**

LAND WARRIOR TEST-BED (LWTB)

The LWTB executes infantry community simulation requirements and works in concert with the Ft Benning, Georgia Dismounted Battle-Space Battle Lab. Some of the exercises conducted by the LWTB include:

- **Dismounted Infantry Simulation/Modular Semi-Automated Forces**
- **Army Experiment 4**
- **Military Operation in Urban Terrain**
- **Design and Evaluation of Light Forces**
- **Virtual Prototype Experiment**
- **Small Team Operations**
- **21st Century Battlefield**

MOUNTED WARFARE TEST-BED (MWTB)

The MWTB supports the mounted battle-space community by assessing the ground based (mounted), force-on-force, warfighter-in-the-loop warfare concepts. Some of the exercises conducted by the MWTB include:

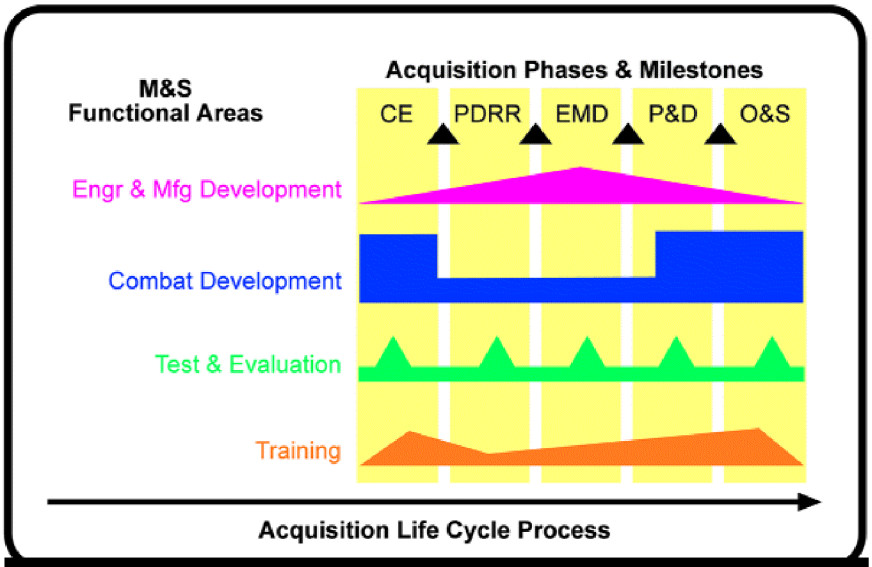
- **Brigade and Below Virtual Battlefield**
- **Tactical Operations Center Restructure Concept**
- **Global Positioning System and Distributed Interaction Simulation**
- **Virtual Terrain Imagery Concept Evaluation**
- **Next Generation Unmanned Vehicle**

Simulation Based Acquisition (SBA)

The Army is shifting to a new paradigm in the use of Modeling and Simulation (M&S) in support of acquisition. This new paradigm is Simulation Based Acquisition (SBA) which is the concept of employing an optimized suite of models and simulations across all functional areas throughout the entire acquisition life cycle. STRICOM is working with the Office of the Assistant Secretary of the Army for Research, Development, and Acquisition to effectively plan for the use of M&S such that a system can still be fielded within imposed budget and time constraints. When properly incorporated into a program, SBA yields benefits that act to reduce risk in cost, schedule and performance.

Simulation Based Acquisition (SBA) is defined as the integrator of simulation tools and technology across acquisition functions and program phases. SBA is a concept for efficiently managing M&S as a resource to be exploited by the Product Managers (PM) to accomplish acquisition objectives. In order to realize the full potential of M&S, the PM must plan for M&S in terms of how it can be applied in each of the acquisition functions from the beginning to the end of the acquisition life cycle.

An illustration of how M&S can be used in each of the functional areas across each of the acquisition phases is depicted below. As the figure illustrates, a key concept in SBA is that M&S can be used extensively in each functional area and throughout the entire acquisition life cycle.



What is Simulation Based Acquiisition?